




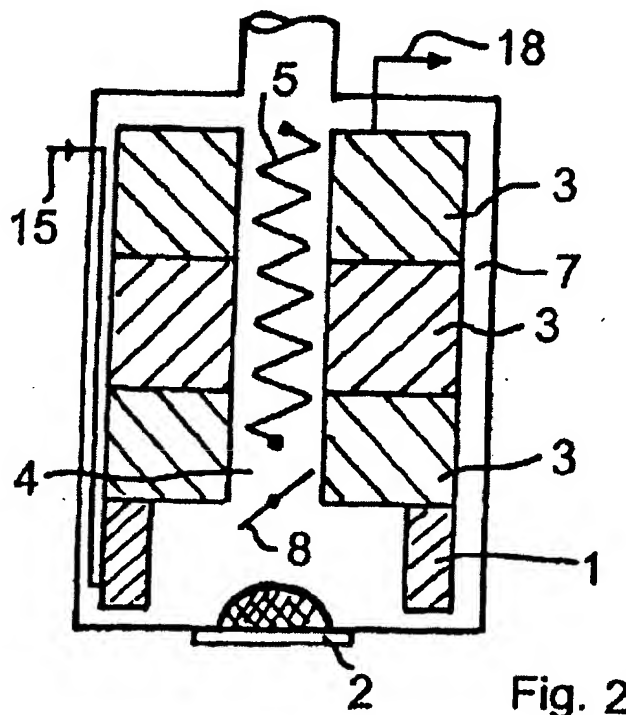
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**Process for operating a hydrogen production apparatus and apparatus for producing hydrogen for fuel cells****Publication number:** EP1304311**Publication date:** 2003-04-23**Inventor:** HEIKRODT KLAUS DR (DE); DZUBIELLA MANFRED DR (DE)**Applicant:** VIESSMANN WERKE KG (DE)**Classification:****- international:** B01J8/00; B01J8/04; C01B3/38; C01B3/48; B01J8/00; B01J8/04; C01B3/00; (IPC1-7): C01B3/38; C01B3/32; C01B3/34; C01B3/48; C01B3/58**- european:** B01J8/00L; B01J8/04D3D; B01J8/04D4B; B01J8/04H; C01B3/38B; C01B3/48**Application number:** EP20020022623 20021009**Priority number(s):** DE20011049987 20011011**Also published as:** EP1304311 (A3)  
 DE10149987 (A1)**Cited documents:** US4128700  
 US6042956  
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**Abstract of EP1304311**

Process for operating an apparatus for producing hydrogen for operating fuel cells comprises supplying a defined quantity of process heat from a heat source (2) designed as a burner to a reformer (1) having downstream catalyst stages (3) for converting hydrocarbon gas and water into hydrogen and other reformer products. <??>When required, additional heat is released which is removed from the apparatus for a separate use. In this case an additional exhaust gas flue (4) is opened to remove the heat unaffected by the reformer process using a heat exchanger (5) arranged in the exhaust gas flue. <??>An Independent claim is also included for an apparatus for producing hydrogen for operating fuel cells.

**Fig. 2**

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